Physics 100C **SYLLABUS** **Spring 2009**

PROFESSOR: Oleg Shpyrko, **oleg@physics.ucsd.edu**
Office: Mayer Hall Addition (MHA) 3681, ext. 4-3066
Office Hour: See below for group office hour/discussion; otherwise after class, or email/call to arrange.

GRADER: TBD

COURSE SCHEDULE:

Lectures: Tuesdays & Thursdays 8:00AM – 9:20AM, HSS 2154
Office/Discussion Hour: TBA
Midterm: Tue, May 5th 8:00AM – 9:20AM, HSS 2154 (in class)
Final Exam: June 11, 8:00 – 11:00 am TBA

COURSE WEB PAGE: x-ray.ucsd.edu/PHYS_100C (RSS/Atom feeds available)

GRADING: Homework=20%, Midterm =30%, Final=50%

COURSE TEXT:

Introduction to Electrodynamics, 3rd Edition, by David J. Griffiths.

HOMEWORK: Homework is due at the START of Thursday lecture, unless otherwise indicated. You can turn it in at the start of the next lecture, but with 20% penalty. Homework work must be individual - cheating on homework will be prosecuted without exception.

ACADEMIC DISHONESTY: Please read the section entitled "UCSD Policy on Integrity of Scholarship" located in the2008-2009 General Catalog, www.ucsd.edu/catalog
(More specifically, see page 69 of PDF document http://tinyurl.com/c7p2eq)
The rules on academic dishonesty will be strictly enforced

MIDTERM AND FINAL:

Open book midterm and final exam. Bring your textbook only, and a bluebook. Formulae and integral tables will be provided if needed.

Only in very exceptional cases (your reason better be good!) will there be accommodation for a missed midterm - such arrangements must be made well in advance.

The solutions to the midterm and final exams, as well as recorded grades will be posted on the course web page.

DETAILED/WEEKLY SCHEDULE:

Week #	Topic (Chapter.Section), Approximate	Homework Assignment
1	Wave Equations, Electromagnetic Waves in Vacuum (9.1-9.2) Review these Formulas	None
2	Electromagnetic Waves in Matter, Reflection and Transmission. Adsorption and Dispersion (9.3-9.4)	TBA
3	Waveguides and Antenna (9.5)	TBA
4	Potential formulation of Maxwell's equations and retarded potentials (10.1-10.2)	TBA
5	Lienard-Wiechert potentials and fields of a moving point charge (10.3)	TBA
6, 7	Radiation (11)	TBA
8,9	The special theory of relativity (12.1-12.2)	TBA
10	Relativistic Electrodynamics (12.2-12.3)	TBA